

Notice of Allowability

Application No.

10/709,684

Applicant(s)

OLLE MIQUEL ET AL.

Examiner

Tho D. Ta

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to interview summary dated 04/07/05.
2. ☒ The allowed claim(s) is/are 1-11.
3. ☒ The drawings filed on 22 May 2004 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☒ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 5/22/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


THO D. TA
PRIMARY EXAMINER

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Bruce E. Harang on 04/07/05.

2. The application has been amended as follows:

1. (currently amended) An electrical distribution box with compacting system for its integral elements, suitable for being used in a vehicle, comprising:

a box having a body, and a cooperating fixing means protruding from a bottom surface of said body;

first and second printed circuit boards which make up an electrical distribution system of the vehicle positioned within said body;

a lid for providing said body with an isolation for its internal field, and a cooperating fixing means protruding from a bottom surface of said lid;

a separating element in a form of a laminated board, said separating element interposed between said first and second printed circuit boards, said separating element has on each one of its surfaces a protuberance in a form of a horn, and a plurality of troncoconic protuberances for coming into contact with

said first and second printed circuit boards and providing a space between said first and second printed circuit boards and the separating element; and

wherein said cooperating fixing means of the body, said cooperating fixing means of the lid and said horns are in coaxial alignment.

2. (currently amended) The electrical distribution box, according to claim 1, wherein the cooperating fixing means of the body comprises a centered and solitary vertical shaft for providing a support base to the first and second printed circuit boards and establishing a separation between the body and said second printed circuit board.

3. (currently amended) The electrical distribution box, according to claim 2, wherein the vertical shaft having a threaded blind passage for receiving a thread as a means of tightening.

4. (currently amended) The electrical distribution box, according to claim 2, wherein the bottom surface of the body having a plurality of cylindrical objects distributed jointly on the aforementioned bottom surface for cooperating in the maintenance of the first and second printed circuit boards, and exerting pressure on them.

5. (currently amended) The electrical distribution box, according to claim 3, wherein said tightening means comprises a screw.

6. (currently amended) The electrical distribution box, according to claim 5, wherein the cooperating fixing means of the lid comprises a solitary shaft, said shaft having an assistant axial passage, said assistant axial passage having an enlarged portion adjacent to an external surface of said assistant axial passage.

7. (currently amended) The electrical distribution box, according to claim 6, wherein a portion of said assistant axial passage for receiving a body of said screw and the enlarged portion of said passage for housing a head of said screw.

8. (currently amended) The electrical distribution box, according to claim 7, wherein said shaft of said lid establishes a separation between the second printed circuit board and the bottom surface of the lid, wherein the bottom surface of the lid having a plurality of cylindrical objects distributed jointly on the aforementioned bottom surface for cooperating in the maintenance of the aforementioned boards, and exerting pressure on them.

9. (currently amended) The electrical distribution box, according to claim 8, wherein each of the first and second printed circuit boards has a passage for allowing the body of said screw through.

10. (currently amended) The electrical distribution box, according to claim 9, wherein the printed circuit boards have non-conductive portions for allowing contact with the cylindrical objects of the body and the lid and said troncoconic protuberances of said separating element.

11. (currently amended) The electrical distribution box, according to claim 10, wherein said screw has a cylindrical body, a cylindrical head and a threaded end, for being introduced into the lowest diameter passage of the shaft of the lid element, through the first printed circuit board, between the separating element and through the second printed circuit board, until the threaded end is housed in the threaded blind passage of the shaft of the body, and the cylindrical head supported by the enlarged portion on the assistant axial passage of the shaft of the lid, and exerting traction on the body so that between both shafts, they put pressure on the intervening boards and separating element, creating a compacting between them, helped by the cylindrical objects.

3. The following is an examiner's statement of reasons for allowance: the prior art fails to provide, teach or suggest a separating element in a form of a laminated board, the separating element interposed between the first and second printed circuit boards, the separating element has on each one of its surfaces a protuberance in a form of a horn, and a plurality of troncoconic protuberances for coming into contact with the first and second printed circuit boards and providing a space between the first and second printed circuit boards and the separating element; and wherein the cooperating fixing means of the body, the cooperating fixing means of the lid and the horns are in coaxial alignment.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tho D. Ta whose telephone number is (571) 272-2014. The examiner can normally be reached on M-F (8:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on (571) 272-2800 ext 33. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



THO D. TA
PRIMARY EXAMINER

tdt
04/07/05